

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 09/367,496C
Source: 1FW16
Date Processed by STIC: 2/28/05

ENTERED



IFW16

RAW SEQUENCE LISTING

DATE: 02/28/2005

PATENT APPLICATION: US/09/367,496C

TIME: 15:28:07

Input Set : A:\SEQUENCE LISTING 09-367,496.txt

Output Set: N:\CRF4\02282005\I367496C.raw

3 <110> APPLICANT: AGUERA et al.
 5 <120> TITLE OF INVENTION: Use of ULIP proteins in the diagnosis and therapy of cancers
 and

6 paraneoplastic neurological syndromes
 8 <130> FILE REFERENCE: P06473US0/BAS
 10 <140> CURRENT APPLICATION NUMBER: US 09/367,496C
 11 <141> CURRENT FILING DATE: 1999-11-24
 14 <150> PRIOR APPLICATION NUMBER: FR 97 01 961
 15 <151> PRIOR FILING DATE: 1997-02-19
 17 <160> NUMBER OF SEQ ID NOS: 40
 19 <170> SOFTWARE: PatentIn version 3.2
 21 <210> SEQ ID NO: 1
 22 <211> LENGTH: 1817
 23 <212> TYPE: DNA
 24 <213> ORGANISM: Mus musculus
 26 <400> SEQUENCE: 1

P.6

27	cttcctcccg	ccccccggag	agatgtctta	tcaggggaag	aaaaatattc	cacccatcac	60
29	gagcgatcgt	cttctgatca	aaggtggcaa	gattgtgaat	gatgaccagt	ccttctatgc	120
31	agacatatac	atggaagatg	ggttgatcaa	gcaaatagga	gaaaacctga	ttgtaccagg	180
33	aggggtgaag	accatcgaag	cccactccag	aatggtgatt	cccgaggaa	ttgacgtgca	240
35	tactcgcttc	cagatgcctg	accaggggaat	gacatccgct	gatgacttct	tccagggaac	300
37	caaggcggcc	ctggccgggg	gaaccaccat	gatcattgac	catgttggtc	ctgagcccgg	360
39	gacgagccta	ttggctgcct	ttgatcagt	gagggagtgg	gctgacagca	agtcctgctg	420
41	tgactattcg	ctgcacgtgg	acatcactga	gtggcacaag	ggcatccagg	aggagatgga	480
44	agctctgggtg	aaggaccacg	gggtaaaactc	cttcctcggtg	tacatggctt	tcaaagatcg	540
46	attccagctg	acggattccc	agatctatga	agtgtctgagc	gtgatccggg	atatcggtgc	600
48	catagctcaa	gtccacgcag	agaatggtga	catcattgct	gaggcacagc	agaggatcct	660
50	ggatctgggc	atcacgggcc	ccgagggaca	cgtgttgagc	cggccagagg	aggtcgaggc	720
52	tgaagctgtg	aaccgggtcca	tactatttgc	caaccagacc	aactgccctc	tgtatgtcac	780
54	caaagtgatg	cccaagagt	cggtgaagt	catcgctcag	gcacggaaga	agggaactgt	840
56	ggtgtatggt	gagcccatca	cggccagcct	ggggactgat	ggctctcatt	actggagcaa	900
58	gaactgggcc	aaggctgcgg	cctttgtcac	ctccccaccc	ttgagccccg	acccaaccac	960
60	tccagacttt	ctcaactcgt	tgtgtcctg	tggagacctc	caagtcaactg	gcagtgccca	1020
62	ctgcaccttc	aacctgccc	agaaggctgt	ggggaaggac	aacttcacct	tgattcccga	1080
64	gggcaccaac	ggcactgagg	agcggatgtc	tgtcatttgg	gataaagctg	tggtcactgg	1140
66	gaagatggat	gagaatcagt	ttgtggctgt	gaccagcacc	aacgcagcca	aagtcttcaa	1200
68	cccttacc	cggaaaggtc	gcatctcggt	gggatctgat	gctgacttgg	tcatctggga	1260
70	ccctgacagt	gtgaagacca	tctctgccaa	gacacacaac	agtgtctctg	agtacaacat	1320
72	ctttgaaggc	atggagtgtc	gcggctcccc	actggtggtc	atcagccagg	gcaagattgt	1380
74	cctggaggac	ggcacacttc	atgtcactga	aggctcagga	cgctacattc	cccgggaagcc	1440
76	cttccctgac	tttgtgtaca	aacgcacaa	agcaaggagc	aggctggctg	agctgagagg	1500
78	ggtccctcgt	ggcctgtatg	acggaccggt	atgcgaggtg	tctgtgacgc	ccaagacggt	1560
80	gactccagcc	tcatcagcta	agacatcccc	tgccaagcag	caggcaccac	ctgttcggaa	1620
82	cctgcaccag	tctggattca	gcttgtctgg	tgctcagatt	gacgacaaca	ttccccgccg	1680

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Input Set : A:\SEQUENCE LISTING_09-367,496.txt

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84 caccacccag cgcacgtgg caccacctgg tggccgtgcc aacatcacca gcctgggcta 1740
86 aagcccctag gcctgcaggc cacttgggga tgggggatgg gacacctgag gacattctga 1800
88 gacttccttt ctccat 1817
91 <210> SEQ ID NO: 2
92 <211> LENGTH: 572
93 <212> TYPE: PRT
94 <213> ORGANISM: Mus musculus
96 <400> SEQUENCE: 2
98 Met Ser Tyr Gln Gly Lys Lys Asn Ile Pro Pro Ile Thr Ser Asp Arg
99 1 5 10 15
102 Leu Leu Ile Lys Gly Gly Lys Ile Val Asn Asp Asp Gln Ser Phe Tyr
103 20 25 30
106 Ala Asp Ile Tyr Met Glu Asp Gly Leu Ile Lys Gln Ile Gly Glu Asn
107 35 40 45
110 Leu Ile Val Pro Gly Gly Val Lys Thr Ile Glu Ala His Ser Arg Met
111 50 55 60
114 Val Ile Pro Gly Gly Ile Asp Val His Thr Arg Phe Gln Met Pro Asp
115 65 70 75 80
118 Gln Gly Met Thr Ser Ala Asp Asp Phe Phe Gln Gly Thr Lys Ala Ala
119 85 90 95
122 Leu Ala Gly Gly Thr Thr Met Ile Ile Asp His Val Val Pro Glu Pro
123 100 105 110
126 Gly Thr Ser Leu Leu Ala Ala Phe Asp Gln Trp Arg Glu Trp Ala Asp
127 115 120 125
130 Ser Lys Ser Cys Cys Asp Tyr Ser Leu His Val Asp Ile Thr Glu Trp
131 130 135 140
134 His Lys Gly Ile Gln Glu Met Glu Ala Leu Val Lys Asp His Gly
135 145 150 155 160
138 Val Asn Ser Phe Leu Val Tyr Met Ala Phe Lys Asp Arg Phe Gln Leu
139 165 170 175
142 Thr Asp Ser Gln Ile Tyr Glu Val Leu Ser Val Ile Arg Asp Ile Gly
143 180 185 190
146 Ala Ile Ala Gln Val His Ala Glu Asn Gly Asp Ile Ile Ala Glu Ala
147 195 200 205
150 Gln Gln Arg Ile Leu Asp Leu Gly Ile Thr Gly Pro Glu Gly His Val
151 210 215 220
154 Leu Ser Arg Pro Glu Glu Val Glu Ala Glu Ala Val Asn Arg Ser Ile
155 225 230 235 240
158 Thr Ile Ala Asn Gln Thr Asn Cys Pro Leu Tyr Val Thr Lys Val Met
159 245 250 255
162 Pro Lys Ser Ala Ala Glu Val Ile Ala Gln Ala Arg Lys Lys Gly Thr
163 260 265 270
166 Val Val Tyr Gly Glu Pro Ile Thr Ala Ser Leu Gly Thr Asp Gly Ser
167 275 280 285
170 His Tyr Trp Ser Lys Asn Trp Ala Lys Ala Ala Ala Phe Val Thr Ser
171 290 295 300
174 Pro Pro Leu Ser Pro Asp Pro Thr Thr Pro Asp Phe Leu Asn Ser Leu
175 305 310 315 320
178 Leu Ser Cys Gly Asp Leu Gln Val Thr Gly Ser Ala His Cys Thr Phe

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179          325          330          335
182 Asn Thr Ala Gln Lys Ala Val Gly Lys Asp Asn Phe Thr Leu Ile Pro
183          340          345          350
186 Glu Gly Thr Asn Gly Thr Glu Glu Arg Met Ser Val Ile Trp Asp Lys
187          355          360          365
190 Ala Val Val Thr Gly Lys Met Asp Glu Asn Gln Phe Val Ala Val Thr
191          370          375          380
194 Ser Thr Asn Ala Ala Lys Val Phe Asn Leu Tyr Pro Arg Lys Gly Arg
195 385          390          395          400
198 Ile Ser Val Gly Ser Asp Ala Asp Leu Val Ile Trp Asp Pro Asp Ser
199          405          410          415
202 Val Lys Thr Ile Ser Ala Lys Thr His Asn Ser Ala Leu Glu Tyr Asn
203          420          425          430
206 Ile Phe Glu Gly Met Glu Cys Arg Gly Ser Pro Leu Val Val Ile Ser
207          435          440          445
210 Gln Gly Lys Ile Val Leu Glu Asp Gly Thr Leu His Val Thr Glu Gly
211          450          455          460
214 Ser Gly Arg Tyr Ile Pro Arg Lys Pro Phe Pro Asp Phe Val Tyr Lys
215 465          470          475          480
218 Arg Ile Lys Ala Arg Ser Arg Leu Ala Glu Leu Arg Gly Val Pro Arg
219          485          490          495
222 Gly Leu Tyr Asp Gly Pro Val Cys Glu Val Ser Val Thr Pro Lys Thr
223          500          505          510
226 Val Thr Pro Ala Ser Ser Ala Lys Thr Ser Pro Ala Lys Gln Gln Ala
227          515          520          525
230 Pro Pro Val Arg Asn Leu His Gln Ser Gly Phe Ser Leu Ser Gly Ala
231          530          535          540
234 Gln Ile Asp Asp Asn Ile Pro Arg Arg Thr Thr Gln Arg Ile Val Ala
235 545          550          555          560
238 Pro Pro Gly Gly Arg Ala Asn Ile Thr Ser Leu Gly
239          565          570

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242 <210> SEQ ID NO: 3

243 <211> LENGTH: 2297

244 <212> TYPE: DNA

245 <213> ORGANISM: Mus musculus

247 <400> SEQUENCE: 3

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248 gctgtctgtc ttcagcgccc tctctctgcc ctgcctctcc ctctctctcc cgccctcctt      60
250 gccaagccgg gcggtgcagg cagccggagc agcggcgggc ggccgagcag cggggagtg      120
252 gcagcgggtg gaggcgagct tctgtccttt ctttcatccc tccctggcct ttgtcgccgc      180
254 tctcacgagt agcgccgccg ggagagaccc gggtagagcg ccaggcagac gttagttcca      240
256 gcggccgggc ggagggctcc agaggggcca tgtctcatca ggggaagaag agcatcccgc      300
258 acatcaccag tgaccggctc ctcatcagag gtggacgcat catcaatgat gaccagtctt      360
260 tctacgccga tgtctaccta gaagatggac tcataaaaca aataggagag aacctgattg      420
262 ttcttggtgg agtgaagacc atcgaggcga atggcogaat ggtcattccc ggtggcattg      480
264 atgtcaacac ttacctgcag aagccctccc agggcatgac ctcggtgat gacttcttcc      540
266 agggcactaa agcagcgctg gcaggtggaa ccacgatgat cattgaccac gttgttcttg      600
268 aacctgggtc cagcttggtg acttctcttg agaaatggca cgaagcagca gacaccaa      660
270 cctgctgtga ctattccctc cacgtggaca tcacaagctg gtatgatggt gttcgggaag      720
272 agctggaggt gctggtgcag gacaaagggt tcaactcctt ccaagtctac atggcggtata      780

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274 aggacctgta ccagatgtct gacagccagc tgtatgaagc cttcaccttc cttaagggtt      840
276 tgggagctgt gatcttagtc catgcagaaa atggagattt gatagctcag gaacaaaaaac      900
278 ggatcctgga gatgggcatc acgggtcccg aggggtcatgc tctgagcaga cccgaggagc      960
280 tggaggccga ggctgtgttc cgggctattg ccattgcagg ccggatcaat tgccctgtgt     1020
282 acatcaccaa ggtcatgagc aagagtgcag cggacatcat cgactggcc aggaagaaaag     1080
284 gccctcttgt cttcgggtgag cccatagccg ccagcctggg aaccgatggc acccactact     1140
286 ggagcaagaa ctgggccaaag gcagctgcat ttgtgacttc ccctcccctg agcccagacc     1200
288 ccaccactcc tgactacttg acctccttgc tggcctgtgg agacttgagc gtcacaggta     1260
290 gtggccactg tccctacagt attgtcaga aggctgtggg caaggacaac ttcactctga     1320
292 tccctgaggg tgtcaatggt atagaagagc ggatgaccgt tgtctgggac aaggcagtgg     1380
294 ctactggcaa gatggatgag aaccagtttg tagccgtcac cagcaccaac gcagccaaga     1440
296 tcttcaacct gtaccggagg aaagggtcgg tgcgtgtggg ctccgatgct gacgtagtca     1500
298 tctgggaccc agataagatg aagaccataa cagccaaaag ccataaatca actgtggagt     1560
300 acaacatctt tgagggcatg gagtgccacg gctccccctt ggtggtcac agtcaggggca     1620
302 agattgtctt tgaggatgga aacatcagtg tcagcaaggg catgggcccgc ttcacccctc     1680
304 ggaagccatt cccagagcat ctctaccagc gtgtcaggat cagaagcaag gttttcgggt     1740
306 tgcatagtgt ttccaggggc atgtacgatg ggctgtgta cgaggtgcca gctacacca     1800
308 aacatgctgc tctgtctcct tctgccgaat cctgccttc taaacaccaa cccccacca     1860
310 tccggaacct ccaccagtcc aacttcagct tatcagggtgc ccagatagat gacaacaatc     1920
312 caaggcgtag aggccaccgc attgtggcgc cccctggtgg ccgctccaac atcaccagcc     1980
314 tcggttgacc tcagatgagc cagatatgca agagtgaagg attatgggaa aacgtccatt     2040
316 ccttttccgt gtttttgaag cccacagttt tagttggtac tgacggaggg gagattgagc     2100
318 gatgctcttt ccttctctgt ttaggaagaa gtggtactag tgtggtgtgt ttgcctggaa     2160
320 gtccctcgcc cacagtgtgt gttcacaccg actccacctc agagcatggt gccgtccgtt     2220
322 ttcccttctc agtgacccca ggtttagcat cgtcctatac tgttccctcc actcctccat     2280
324 gaccctctga gtgatgg                                     2297

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327 <210> SEQ ID NO: 4

328 <211> LENGTH: 572

329 <212> TYPE: PRT

330 <213> ORGANISM: Mus musculus

332 <400> SEQUENCE: 4

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334 Met Ser His Gln Gly Lys Lys Ser Ile Pro His Ile Thr Ser Asp Arg
335 1          5          10          15
338 Leu Leu Ile Arg Gly Gly Arg Ile Ile Asn Asp Asp Gln Ser Phe Tyr
339          20          25          30
342 Ala Asp Val Tyr Leu Glu Asp Gly Leu Ile Lys Gln Ile Gly Glu Asn
343          35          40          45
346 Leu Ile Val Pro Gly Gly Val Lys Thr Ile Glu Ala Asn Gly Arg Met
347          50          55          60
350 Val Ile Pro Gly Gly Ile Asp Val Asn Thr Tyr Leu Gln Lys Pro Ser
351 65          70          75          80
354 Gln Gly Met Thr Ser Ala Asp Asp Phe Phe Gln Gly Thr Lys Ala Ala
355          85          90          95
358 Leu Ala Gly Gly Thr Thr Met Ile Ile Asp His Val Val Pro Glu Pro
359          100         105         110
362 Gly Ser Ser Leu Leu Thr Ser Phe Glu Lys Trp His Glu Ala Ala Asp
363          115         120         125
366 Thr Lys Ser Cys Cys Asp Tyr Ser Leu His Val Asp Ile Thr Ser Trp
367          130         135         140

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371 Tyr Asp Gly Val Arg Glu Glu Leu Glu Val Leu Val Gln Asp Lys Gly
372 145 150 155 160
375 Val Asn Ser Phe Gln Val Tyr Met Ala Tyr Lys Asp Leu Tyr Gln Met
376 165 170 175
379 Ser Asp Ser Gln Leu Tyr Glu Ala Phe Thr Phe Leu Lys Gly Leu Gly
380 180 185 190
383 Ala Val Ile Leu Val His Ala Glu Asn Gly Asp Leu Ile Ala Gln Glu
384 195 200 205
387 Gln Lys Arg Ile Leu Glu Met Gly Ile Thr Gly Pro Glu Gly His Ala
388 210 215 220
391 Leu Ser Arg Pro Glu Glu Leu Glu Ala Glu Ala Val Phe Arg Ala Ile
392 225 230 235 240
395 Ala Ile Ala Gly Arg Ile Asn Cys Pro Val Tyr Ile Thr Lys Val Met
396 245 250 255
399 Ser Lys Ser Ala Ala Asp Ile Ile Ala Leu Ala Arg Lys Lys Gly Pro
400 260 265 270
403 Leu Val Phe Gly Glu Pro Ile Ala Ala Ser Leu Gly Thr Asp Gly Thr
404 275 280 285
407 His Tyr Trp Ser Lys Asn Trp Ala Lys Ala Ala Phe Val Thr Ser
408 290 295 300
411 Pro Pro Leu Ser Pro Asp Pro Thr Thr Pro Asp Tyr Leu Thr Ser Leu
412 305 310 315 320
415 Leu Ala Cys Gly Asp Leu Gln Val Thr Gly Ser Gly His Cys Pro Tyr
416 325 330 335
419 Ser Ile Ala Gln Lys Ala Val Gly Lys Asp Asn Phe Thr Leu Ile Pro
420 340 345 350
423 Glu Gly Val Asn Gly Ile Glu Glu Arg Met Thr Val Val Trp Asp Lys
424 355 360 365
427 Ala Val Ala Thr Gly Lys Met Asp Glu Asn Gln Phe Val Ala Val Thr
428 370 375 380
431 Ser Thr Asn Ala Ala Lys Ile Phe Asn Leu Tyr Pro Arg Lys Gly Arg
432 385 390 395 400
435 Ile Ala Val Gly Ser Asp Ala Asp Val Val Ile Trp Asp Pro Asp Lys
436 405 410 415
439 Met Lys Thr Ile Thr Ala Lys Ser His Lys Ser Thr Val Glu Tyr Asn
440 420 425 430
443 Ile Phe Glu Gly Met Glu Cys His Gly Ser Pro Leu Val Val Ile Ser
444 435 440 445
447 Gln Gly Lys Ile Val Phe Glu Asp Gly Asn Ile Ser Val Ser Lys Gly
448 450 455 460
451 Met Gly Arg Phe Ile Pro Arg Lys Pro Phe Pro Glu His Leu Tyr Gln
452 465 470 475 480
455 Arg Val Arg Ile Arg Ser Lys Val Phe Gly Leu His Ser Val Ser Arg
456 485 490 495
459 Gly Met Tyr Asp Gly Pro Val Tyr Glu Val Pro Ala Thr Pro Lys His
460 500 505 510
463 Ala Ala Pro Ala Pro Ser Ala Glu Ser Ser Pro Ser Lys His Gln Pro
464 515 520 525
467 Pro Pro Ile Arg Asn Leu His Gln Ser Asn Phe Ser Leu Ser Gly Ala

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RAW SEQUENCE LISTING ERROR SUMMARY DATE: 02/28/2005
PATENT APPLICATION: US/09/367,496C TIME: 15:28:08

Input Set : A:\SEQUENCE LISTING_09-367,496.txt
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:11; Xaa Pos. 1
Seq#:12; Xaa Pos. 1
Seq#:13; Xaa Pos. 1
Seq#:14; Xaa Pos. 1,4,5,9,14
Seq#:15; Xaa Pos. 1,2
Seq#:16; Xaa Pos. 1,5,16,17
Seq#:17; Xaa Pos. 1,2,3,7,9,11
Seq#:19; Xaa Pos. 8
Seq#:20; N Pos. 3,9,12
Seq#:21; N Pos. 3,6,9,14
Seq#:22; N Pos. 6,9,12
Seq#:23; N Pos. 6,9,12

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40

VERIFICATION SUMMARY

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Input Set : A:\SEQUENCE LISTING_09-367,496.txt

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L:1104 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0
L:1121 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0
L:1138 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0
L:1170 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0
L:1192 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0
L:1227 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0
M:341 Repeated in SeqNo=16
L:1263 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:0
L:1292 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:0
L:1321 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:0
L:1354 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:0
L:1382 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:0
L:1410 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:0